AsantéHub 2072RPU Chassis Installation Guide

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Introducing the Asanté 2072RPU Chassis

The AsantéHub 2072RPU (Redundant Power Supply) Chassis is a dual segment, departmental Ethernet concentrator configured with two load-sharing power supplies, either of which can assume the total power budget for the device should one fail. If a failure occurs in one power supply, the remaining power supply will automatically take up the additional load. From the viewpoint of network operations, **there is no delay in switching to a single power supply**. No packets are dropped and there is no glitch in network service.

The hub, designed with enterprise-level features, offers a seven-slot architecture, enabling you to add a variety of multiport repeater modules with several cabling options, as well as an SNMP-based network management module (NMM). Some modules, which fill two slots, provide twice as many ports for connecting to other devices. In complete compliance with the IEEE specifications for Ethernet, the chassis can be incorporated easily into an enterprise network orestablish a solid platform for departmental growth.

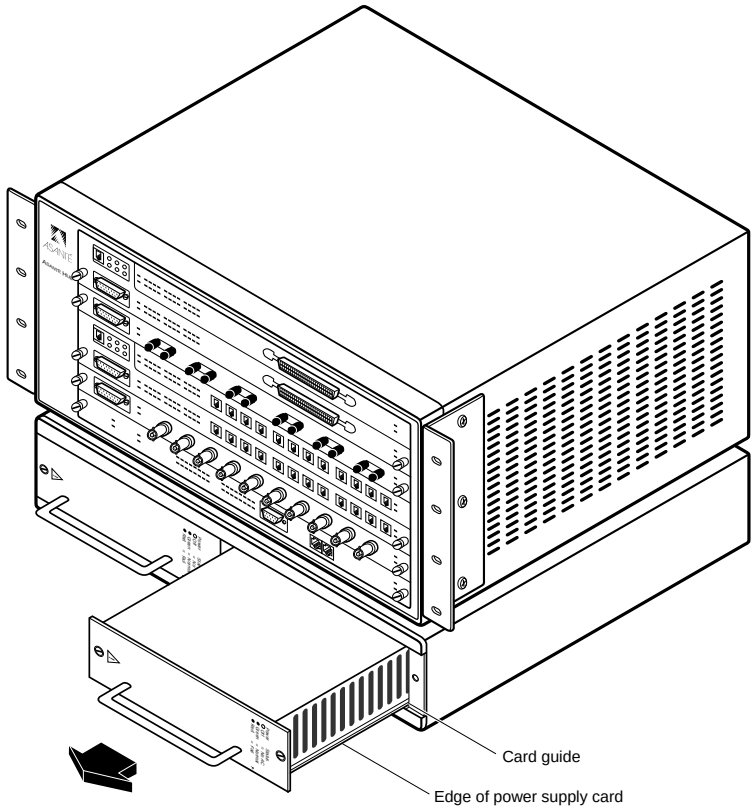

Figure 1 Asanté 2072RPU Chassis

The Asanté 2072RPU chassis has the following features:

- ❏ Seven slots to accept a variety of multiport repeater modules, allowing you to add nodes when needed.
- ❏ Dual-segment backplane lets you assign any repeater module in any slot to either of two segments (either Segment 1 or Segment 2) and create two separate networks
- ❏ Universal AC-input switching power supply, thermal protection scheme and dual-fan architecture
- ❏ Redundant power supply provides added security in mission critical applications.
- ❏ Complete compliance with IEEE 802.3 specifications for Ethernet
- ❏ In-band and out-of-band management capabilities using AsantéView network management software from Macintosh and Windows PC platforms, or from a VT100 terminal
- ❏ Hot-swappable modules

The 2072RPU chassis accommodates seven slots for single or double-slotted multiport repeater modules and a network management module. Since all cables attach to the front of the modules, you can easily access the connections in both rack mount and desktop installations.

Segment control lets you create separate Ethernet networks using the chassis's dual backplane. Using the NMM's Segment Control buttons or using AsantéView software, you can isolate a repeater module or assign it to one of the two segments. You may choose to do this to help balance traffic or to separate a module from thje rest of the network when testing network equipment.

Each of the two power supplies can singularly support the system's full power requirements. This feature is particularly useful for networks where uptime is extremely critical.

Modules are hot swappable. This means you can make changes or repairs, without powering down or without interrupting the whole network.

For detailed information concerning the modules, see the module installation guides that are shipped with each module.

Installation

This section explains how to install the 2072RPU chassis into a rack or onto a desk.

The Asanté 2072RPU chassis package includes the following items:

- ❏ Chassis in protective plastic packaging, including two modular power supplies
- ❏ Two AC power cables
- ❏ Two mounting brackets and ten screws for rack mounting
- ❏ This installation guide
- ❏ Warranty card

Required Work Area

Before unpacking the chassis, make sure that you have a large, dust-free, clean, and electrostatically safe work area.

Positioning the 2072RPU Chassis

To correctly position the chassis, make sure you:

- ❏ Place the chassis near two AC outlets, preferably on separate circuits
- ❏ Place the chassis within 100 meters if you are using twisted pair cable (10BaseT); 185 meters for thin Ethernet cable (10Base2), two kilometers for fiber optic cable (10BaseF)
- ❏ Leave a two-inch clearance around the ventilation grills.

❖ Note: Do not place the chassis near sources of electrical interferences, such as motors or heavy current switches. ❖

Normal office temperature and humidity generally suit this type of equipment (operating temperature: 0° to 40° C ambient).

Desk Mounting the Chassis

To desk mount the chassis, do the following steps:

1 Peel the protective strips from the self-adhesive feet and apply the feet in the four corners of the base of the chassis.

❖ Note: Make sure your desk or table can support approximately 40 lbs for a fully loaded chassis.❖

2 Place the chassis on a flat, stable surface.

Rack Mounting the Chassis

To rack mount the chassis, do the following steps:

1. Mark the desired location on the rack.
2. Fasten the brackets to the chassis, using the hardware provided.
3. Fasten the chassis to the rack, (get an assistant to hold it in place if necessary), using the screws provided.

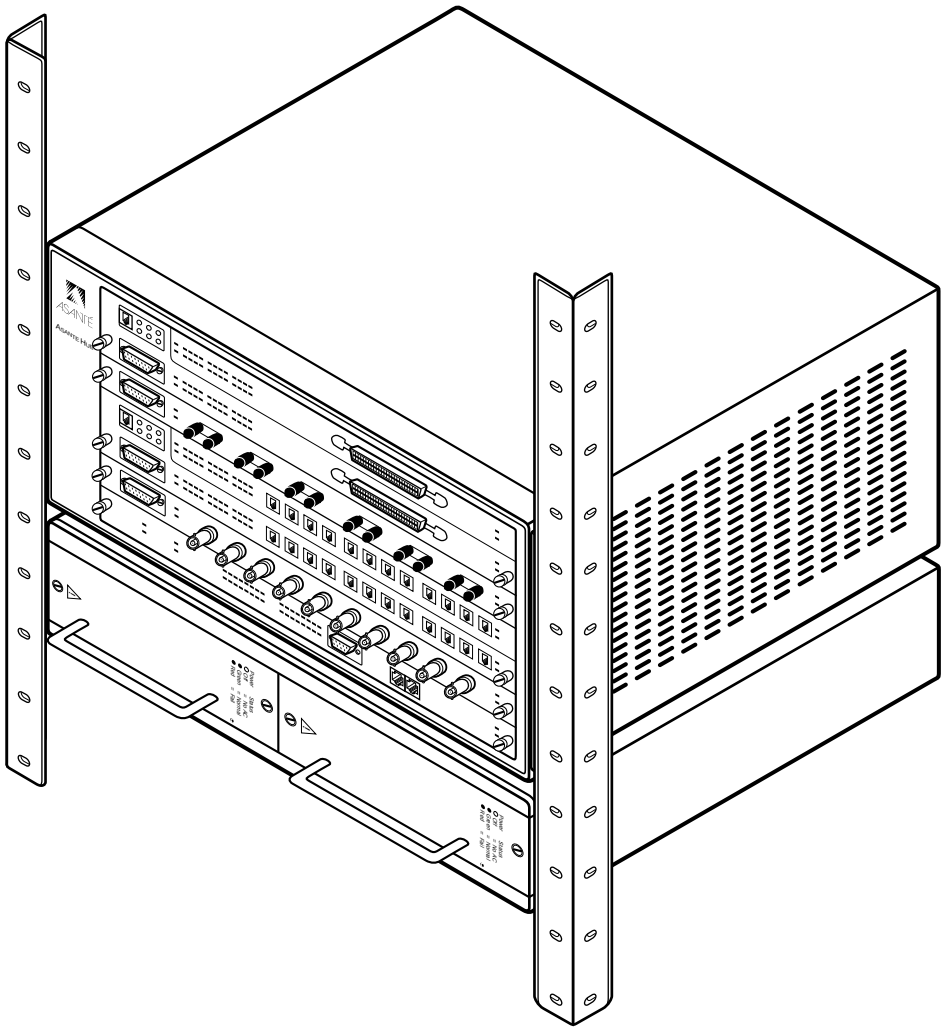

Figure 2 Rack-Mounting the Chassis

Powering Up the Hub

This section explains how to power up the hub for functionality. If you are installing more than one hub, you may want to repeat this procedure for each hub before attaching any device or net work connections.

To power up the hub, do the following steps:

1. Make sure the power toggle switch is in the **off** position on the back panel.
   - ❖ Note: Never remove or insert the power cords with the power switch turned **on**.❖
2. Attach the power cords to the sockets on the backpanel and connect them to an AC outlet.
3. Turn **on** the power switch.

Checking the Fuse

A blown fuse usually indicates a serious problem in the power supply. Contact technical support to help you determine the cause and whether you should replace the fuse, or return the original for testing and servicing.

To check the fuse, do the following steps:

1. Make sure the power is turned **off** and unplug the hub.
2. Insert a small screwdriver under the fuse faceplate located on the hub's front panel and lift if off.
3. Check the fuse to see if it has blown.
   A back-up fuse is stored in the fuse holder (small black box) that is attached to the visible fuse.
   - ❖ Note: Always use the same type of fuse (4A/250V) that came with the chassis. Failure to do so may result in damage to the hub.

Replacing a Power Supply

The AsantéHub 2072RPU is powered by two identical power supplies. Replacing either one of the units can be done with power on the hub.There is no need to shut down the hub and remove it from network service.To replace a power supply, follow these simple instructions and refer to the accompanying illustration.

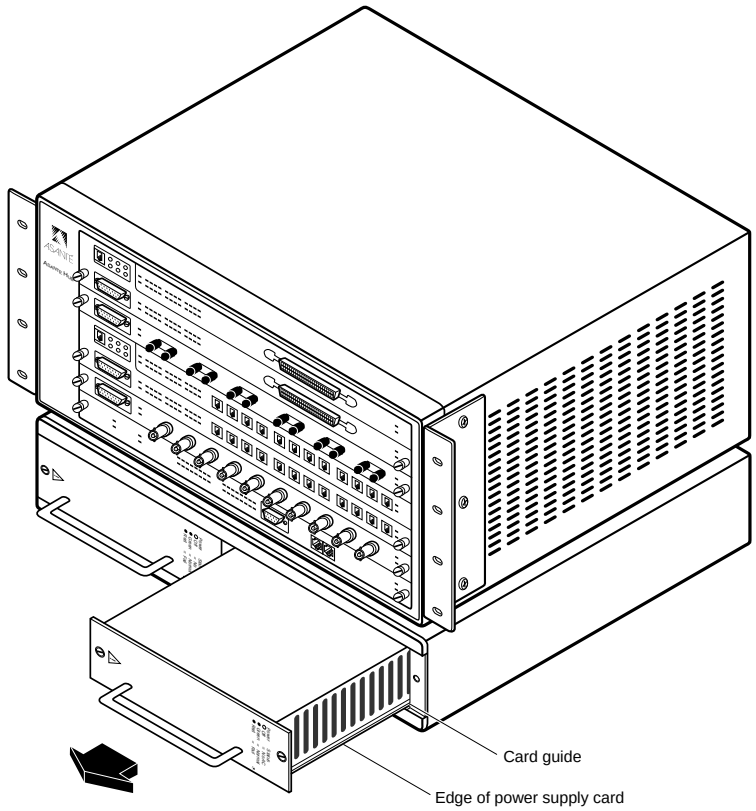

Figure 3 Changing a Power Supply

1. Unscrew the two power supply retaining screws located on the power supply face plate.

2. Grasp the handle on the front of the power supply and pull straight out, removing the unit from the chassis.

3. Insert the new unit into the chassis, being careful to align the edges of the power supply card with the card guide in the chassis. Push straight in on the handle until the edge connector at the rear of the power supply seats in its slot.

4. Tighten the two retaining screws.The new unit comes on line automatically and begins load sharing..

Technical Specifications

The technical specifications for the Asanté 2072RPU Chassis are as follows:

Power Requirements:

Input Voltage: 100-240VAC, 50-60Hz Single phase; continuous voltage input range

Input Current: 3A @ 100 VAC (max.)

1.5A @ 220 V

5A/250V Fast Blow Fuse

Electromagnetic Emissions:

Meets FCC/VDE Class A requirement

Safety:

Designed in accordance with UL 1950, CSA 22.2 No. 220, IEC 950,TUV and VDE requirements.

Physical Dimensions:

17”W x 10/25”H x 12”L

Weight:

Approximately 25 lbs. (without modules)

Environmental:

Operating Temperature: 0° to 40° C ambient

Operating Humidity: 5 to 85% noncondensing

Operating Altitude: 10,000 ft. (3,048m) maximum

Storage Temperature: -30° to 80° C

Storage Humidity: 5 to 90% noncondensing

Storage Altitude: 25,000 ft. (7,620m) maximum

Warranty:

1 year

Manual P/N 06-00118-00